

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claim 1 (Withdrawn) A method of lowering the melting temperature of a glass composition including CaO and MgO while substantially maintaining the bending and annealing temperatures, comprising the steps of:
increasing the CaO by a selected weight percent; and
decreasing the MgO by substantially the same weight percent.

Claim 2 (Withdrawn) The method according to claim 1, including increasing the CaO to greater than 9 weight percent.

Claim 3 (Withdrawn) The method according to claim 1, including increasing the CaO to 9.1 to 12 weight percent.

Claim 4 (Withdrawn) The method according to claim 1, including increasing the CaO to greater than or equal to 10 weight percent.

Claim 5 (Withdrawn) The method according to claim 1, including decreasing the MgO to less than 3 weight percent.

Claim 6 (Withdrawn) The method according to claim 1, including maintaining a total amount of CaO + MgO greater than 12 weight percent.

Claim 7 (Withdrawn) The method according to claim 1, including maintaining a total amount of CaO + MgO greater than 12.5 weight percent.

Claim 8 (Withdrawn) The method according to claim 1, including maintaining a total amount of CaO + MgO in the range of 12.5 to 13 weight percent.

Claim 9 (Withdrawn) The method according to claim 1, including increasing the CaO to provide a melting temperature in the range of about 2500°F to about 2590°F (1370°C to 1421°C), a bending temperature in the range of about 1300°F to 1400°F (704°C to 759°C), and an annealing temperature in the range of about 1010°F to 1050°F (543°C to 565°C).

Claim 10 (Withdrawn) A method of adjusting a glass composition to lower the melting and forming temperatures while substantially maintaining the bending and annealing temperatures, comprising the steps of:

- providing a glass composition having CaO and MgO;
- increasing the CaO a selected amount; and
- decreasing the MgO by substantially the same selected amount while substantially maintaining a total amount of CaO + MgO.

Claim 12 (Withdrawn) A method of lowering the melting and forming temperatures of a glass composition while substantially maintaining the softening and annealing temperatures of the glass, comprising:

- replacing at least a portion of at least one of CaO or MgO in the composition with a metal oxide whose metal has a lower field strength than at least one of Ca⁺⁺ or Mg⁺⁺.

Claim 12 (Withdrawn) The method according to claim 11, including replacing at least a portion of at least one of the CaO or MgO with at least one metal oxide whose metal is selected from Ba or Sr.

Claim 13 (Canceled)

Claim 14 (Currently Amended) The composition according to ~~claim 26~~claim 19, wherein CaO is in the range of greater than 9 to 12 weight percent.

Claim 15 (Currently Amended) The composition according to ~~claim 26~~claim 19, wherein CaO is in the range of 9.1 to 11 weight percent.

Claim 16 (Currently Amended) The composition according to ~~claim 26~~claim 19, wherein MgO is in the range of 2 to less than 4 weight percent.

Claim 17 (Canceled)

Claim 18 (Previously Presented) The composition according to claim 19, wherein CaO + MgO is in the range of 12.5 to less than 13 weight percent.

Claim 19 (Currently Amended) A glass composition, comprising:

- a. SiO₂ 70 to 75 weight percent
- b. Na₂O 12 to 15 weight percent
- c. K₂O 0 to 5 weight percent
- d. CaO >9 weight percent
- e. MgO < 4 weight percent
- f. Al₂O₃ 0 to less than 1.6 weight percent
- g. SO₃ 0 to 1 weight percent
- h. Fe₂O₃ 0 to less than 0.65 weight percent

wherein

SiO₂ + Al₂O₃ \geq 70 weight percent

Na₂O + K₂O 12 to 15 weight percent

CaO +MgO 12 to less than 13.4 weight percent

CaO/MgO ~~2 to 5~~2.33 to 5

wherein the glass composition has a log 2 viscosity in the range of about 2570°F to about 2590°F (1410°C to 1421°C) and a log 4 viscosity in the range of about 1850°F to about 1894°F (1010°C to 1034°C).

Claim 20 (Canceled)

Claim 21 (Original) The composition according to claim 19, wherein the glass composition has a log 7.6 viscosity in the range of about 1300°F to about

1350°F (704 to 732) and log 13 viscosity in the range of about 1016°F to about 1020°F (547°C to 449°C).

Claim 22 (Withdrawn) A flat glass product made by the process of claim 1.

Claim 23 (Original) The composition according to claim 19, wherein the melting point of the glass composition from the log 2 viscosity reduces fuel usage in preparing the glass.

Claim 24 (Previously Presented) The composition according to claim 21, wherein the melting point of the glass composition from the log 2 viscosity reduces fuel usage in preparing the glass and the bending and annealing temperatures of the glass from the log 7.6 viscosity in the range of about 1300°F to about 1350°F (704°C to 732°C) and a log 13 viscosity in the range of about 1016°F to about 1020°F (547°C to 549°C) are in the range for a higher melting glass.

Claim 25 (Previously Presented) The composition according to claim 19, wherein the ratio of CaO to MgO is 2.77 to 5.

Claim 26 (Canceled)